



APICAL INDUSTRIES, INC.
dba DART AEROSPACE

ENGINEERING CHANGE NOTICE NO.

05304

SHEET 1 OF 1

DWG NO. 646.4000

REV: C

PREPARED BY J. BECKER

DATE: 02/04/16

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY:

ENGR

MFG

QC

EFF. NEXT ORDER

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

REASON: REVISED F/N 12.

ECR:
N/A

ACTION ITEM:
1. N/A

SHEET 1, BOM IS:

12	R	601.1624	8	16	LOCKNUT	MS21042L3		
F/N	TC	PART NUMBER	4006	4005	DESCRIPTION	MATERIAL		SPECIFICATION
			QTY					
DOCUMENTS EFFECTED:						CHANGE CATEGORY	DER REVIEW REQUIRED	
<input type="checkbox"/> PATTERN <input type="checkbox"/> MDL <input type="checkbox"/> INSTALL INSTRUCTIONS <input type="checkbox"/> ICA <input type="checkbox"/> FMS <input checked="" type="checkbox"/> BOM						<input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	

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NOTES:

1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.

2 INSTALL F/N 14 WITH F/N 52 & 53.

A 3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMMASTER-CARR P/N 75935A651.

4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE.
VENDOR: R.S. HUGHES P/N 021200-24216.

5 REUSE FASTENERS FROM F/N 1.

6 USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.

7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.

8 INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 78 SCREW IN PLACE OF F/N 17 SCREW.

B 9 NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 & F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

UNINCORPORATED ECN(S)

05304

	5		5		5	78	601.3875	SCREW	MS24693C278	
	1		1		1	77	646.9410	SHIM		
			4		4	76	601.2764	WASHER	NAS1149FN832P	
			2		2	75	601.2973	LOCKNUT	MS21042-08	
			2		2	74	601.2988	SCREW	MS27039-0813	
			2		2	73	601.2943	LOCKNUT	MS21042-3	
			2		2	72	601.3128	NUT	AN316C4R	
			2		2	71	601.3209	LOCKNUT	MS21042L4	
			4		4	70	601.2638	WASHER	NAS1149F0432P	
			2		2	69	601.2669	BOLT	AN4C7A	
			2		2	68	601.3119	CLEVIS	AN665-34R	
			2		2	67	601.3121	EYE BOLT	AN44-5A	
			2		2	66	650.9201	EYE BRACKET ASSY		
		REF	REF		REF	65	647.5701	GPS MOUNT KIT		
					2	64	601.3151	WASHER	NAS1149F0363P	
					2	63	601.2911	SCREW	MS24694S53	
			24		24	62	601.2637	SCREW	MS27039-1-16	
	2		2		2	61	601.2763	BOLT	AN3-12A	
			1		1	60	646.3913	SHIM		
			4		4	59	646.3912	SHIM		
			1		1	58	646.3911	SHIM		
			4		4	57	646.3910	SHIM		
			5		5	56	600.1013	PRIMER		
			8 FT		8 FT	55	600.0129	VHB TAPE		
			1	1	1	54	600.1012	SEALANT	PR-1425 CLASS B	
			1		1	53	600.0991	MAGNOBOND 6398 PART B		
			1		1	52	600.0990	MAGNOBOND 6398 PART A		
	6		10		10	51	601.2826	BOLT	AN3-11A	
					2	50	646.3814	WIPER BRACKET		
					2	49	601.2910	SCREW	MS27039-1-18	
			2		2	48	601.1365	SCREW	MS27039-1-10	
			2		2	47	646.3719	DOUBLER		
			2		2	46	646.3718	CUSTOM WASHER		
			1		1	45	646.3717	DOUBLER		
			22	2	22	44	601.1948	SCREW	MS27039-1-19	
			2		2	43	601.1952	SCREW	MS27039-1-20	
			4		4	42	601.1956	SCREW	MS27039-1-21	
.4006	.4005	.4004	.4003	.4002	.4001	FIND #	PART #	DESCRIPTION	MATL	SPEC.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECNS 02199, 02351, 02719 & 02765	02/08/2010	P. BRAVO
B	INCORPORATED ECN 03046, 03079 & 04731	11/04/2014	P. BRAVO
C	INCORPORATED ECN 05098	09/09/2015	P. BRAVO

			2		2	41	601.2829	SCREW	MS24694S54	
			2		2	40	601.2831	RIVET	MS20426AD5-7	
			1		1	39	646.3716	GAUGE BRACKET		
			6		6	38	601.1953	SCREW	MS27039-1-12	
		2			2	37	646.3715	STRUT DOUBLER		
	2		2		2	36	601.2824	BOLT	AN3-5A	
12		36			36	35	601.2277	RIVET	CCR264SS-3-02	
6		18			18	34	600.0795	NUTPLATE	MS21047-3	
3		3			3	33	601.2565	RIVET	MS20470AD5-7	
1		1			1	32	646.3813	STRUT BRACKET		
4		4			4	31	601.2822	BOLT	AN3-3A	
2		2			2	30	646.3812	GUSSET BRACKET		
8		8			8	29	601.2564	RIVET	MS20470AD5-6	
1		1			1	28	646.3714	GUSSET		
	1		1		1	27	646.3610	FILLER		
	3		3		3	26	601.2830	SCREW	MS24694S55	
	2		2		2	25	601.2825	BOLT	AN3-6A	
	1		1		1	24	646.3811	RADIUS BLOCK		
	1		1		1	23	646.3712	CLIP		
	1		1		1	22	646.3711	CLIP		
8		8			8	21	601.2832	RIVET	MS20470AD5-5.5	
14		14			14	20	601.2020	RIVET	CR3213-5-3	
4	6	4	6		10	19	601.2823	BOLT	AN3-4A	
	1		1		1	18	601.2827	BOLT	AN3-13A	
	5		5		5	17	601.2912	SCREW	MS24694S51	
1		1			1	16	646.3713	GUSSET		
1		1			1	15	646.3210	SUPPORT		
		1			1	14	646.3710	DOUBLER		
	1		1		1	13	646.3110	CHANNEL		
14	10	8	53	6	61	12	601.1624	LOCKNUT	MS21042L3	
16	32	18	120	16	144	11	601.1607	WASHER	NAS1149F0332P	
				1		10	646.3410	LH WIPER DEFLECTOR		
				1		9	646.3411	RH WIPER DEFLECTOR		
			2		2	8	647.7703	STRUT ASSY		
			2		2	7	647.0112	STRUT BRACKET		
	1		1		1	6	646.3511	STRUT		
	1		1		1	5	646.3510	STRUT		
2		2			2	4	646.3810	BRACKET		
			1		1	3	646.2910	DEFLECTOR		
	1		1		1	2	646.3001	LOWER CUTTER ASSY		
			1		1	1	646.3301	UPPER CUTTER ASSY		
X							646.4006	LOWER CUTTER FIXED PROVISIONS		
	X						646.4005	LOWER CUTTER REMOVABLE PROVISIONS		
		X					646.4004	FIXED PROVISIONS KIT		
			X				646.4003	CABLE CUTTERS KIT WITHOUT FIXED PROVISIONS		
				X			646.4002	AS350 WIPER DEFLECTOR KIT		
					X		646.4001	AS350 CABLE CUTTERS KIT		
.4006	.4005	.4004	.4003	.4002	.4001	FIND #	PART #	DESCRIPTION	MATL	SPEC.

PARTS LIST			
QTY	ORIGINAL DATE (MO-DA-YR)	08-27-08	
NEXT ASSY (S)	DRAWN BY	CHECKER	
	S. HUFF	P. BRAVO	
	DRAWING APPROVAL		
	P. BRAVO		
	08-27-08		
	CONTRACT No.		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.010 3 PLACE DECIMALS ±.005 ANGLES ±.5°			
SIZE	CAGE CODE	DWG. NO.	REV.
B	07MZ6	646.4000	C
SCALE NONE		SHEET 1 OF 5	

DART 3030 ENTERPRISE CT., SUITE A
AEROSPACE VISTA, CA. 92081
APICAL INDUSTRIES, INC. (760)-724-5300
dba DART AEROSPACE

AS350 CABLE CUTTERS KIT

1 2 3 4 5 6 7 8

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A

B

C

D

DETAIL A

DETAIL C

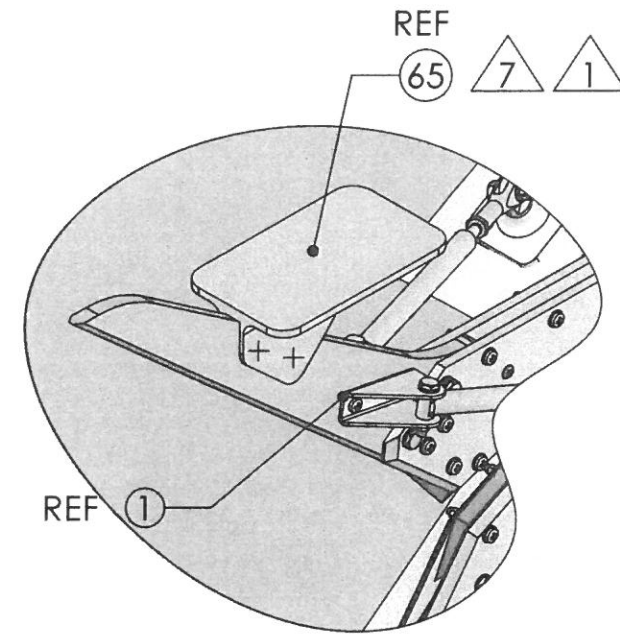
646.4002

646.4001

DETAIL B

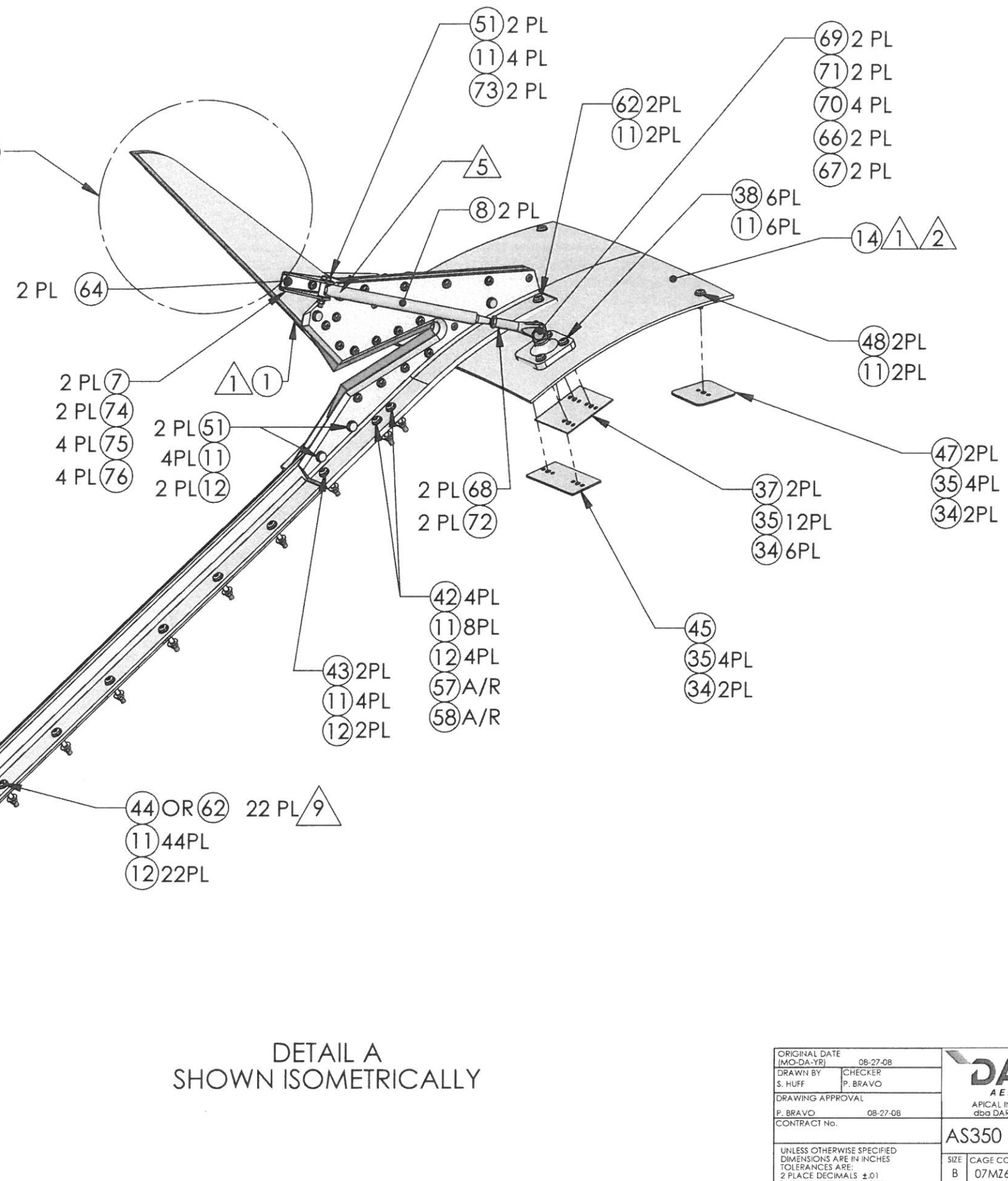
ORIGINAL DATE (MO-DA-YR) 08-27-08		DART 3030 ENTERPRISE CT., AEROSPACE SUITE A APICAL INDUSTRIES, INC. VISTA, CA. 92081 dba DART AEROSPACE (760)-724-5300	
DRAWN BY S. HUFF	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO 08-27-08		AS350 CABLE CUTTERS KIT	
CONTRACT No.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.010 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B	REV. C
		CAGE CODE 07MZ6	DWG. NO. 646.4000
		SCALE NONE	SHEET 2 OF 5

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DETAIL D
TYPICAL GPS MOUNT KIT INSTALLATION

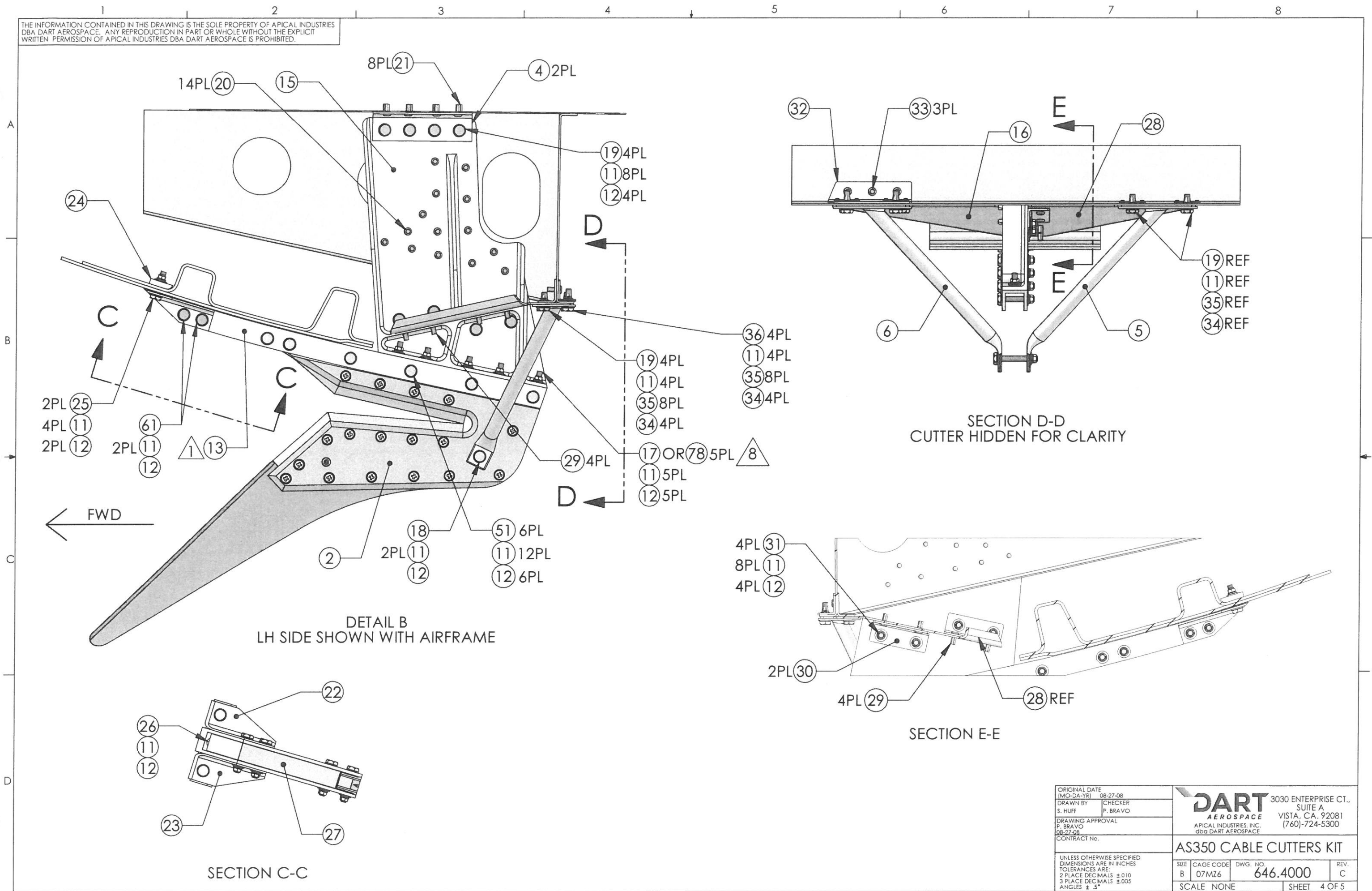
DETAIL D



DETAIL A
SHOWN ISOMETRICALLY

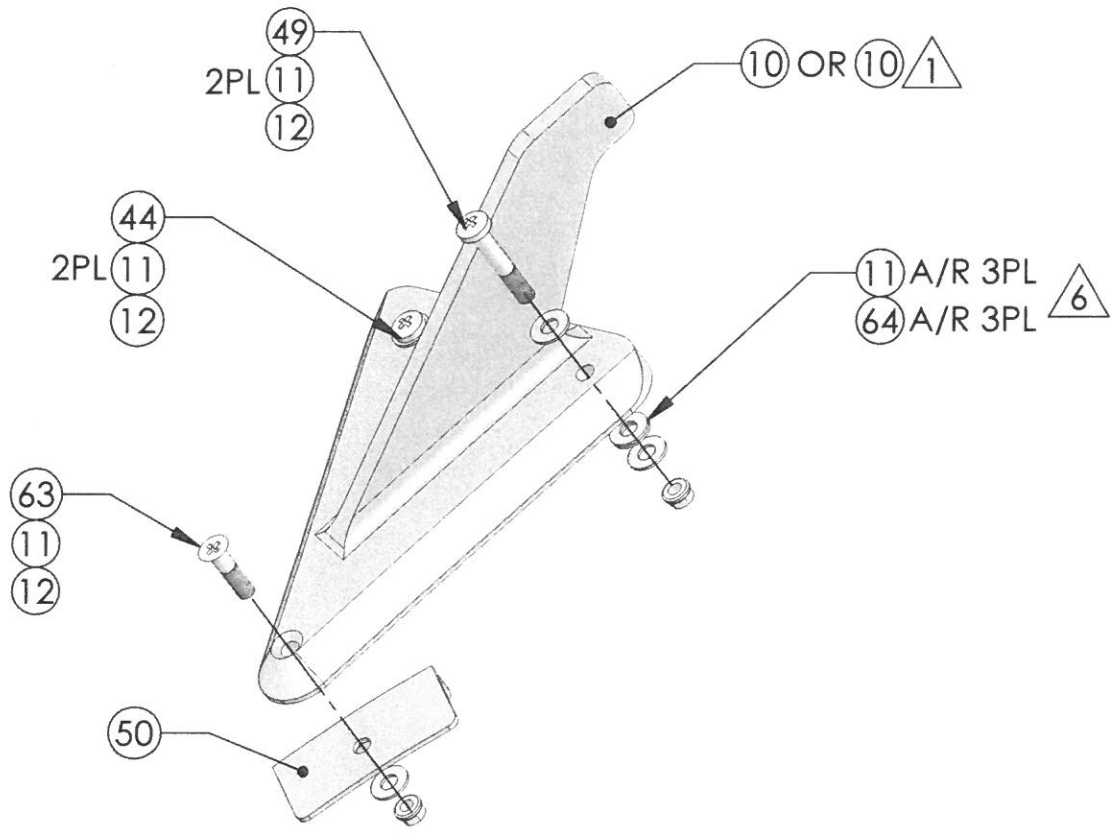
ORIGINAL DATE (MO-DA-YR) 08-27-08	3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300		
DRAWN BY S. HUFF	CHECKER P. BRAVO	DART AEROSPACE APICAL INDUSTRIES, INC. dba DART AEROSPACE	
DRAWING APPROVAL P. BRAVO 08-27-08		AS350 CABLE CUTTERS KIT	
CONTRACT No.		SIZE B	REV. C
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		CAGE CODE 07MZ6	DWG. NO. 646.4000
SCALE NONE		SHEET 3 OF 5	

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DETAIL C
LH SHOWN EXPLODED
RH OPPOSITE

ORIGINAL DATE (MO-DA-YR) 08-27-08		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300 APICAL INDUSTRIES, INC. dba DART AEROSPACE			
DRAWN BY S. HUFF	CHECKER P. BRAVO				
DRAWING APPROVAL P. BRAVO 08-27-08		AS350 CABLE CUTTERS KIT			
CONTRACT No.		SIZE B	CAGE CODE 07MZ6	DWG. NO. 646.4000	REV. C
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.010 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SCALE NONE		SHEET 5 OF 5	